[illegible] that way is the [illegible]
look way also to. If the smaller end of the egg dips, it should be [illegible].

If the geese are permitted to set their eggs, and then it is believed that [illegible] when do laying the best sketch this is a very desirable practice, there are practically no problems under normal circumstances. One of these is that [illegible] is an opportunity to get herself soaking wet when she leaves the nest, which she will want to do to moisten the eggs when she returns. Almost all geese will enter the eggs with the nesting material prior to leaving the nest. This tends to keep them from chilling. Occasionally, however, a goose will neglect to moisten the eggs on returning to the nest. This results in the nesting material insulating the eggs from the [illegible] of the goose's body. Although the geese may resent the act, it is necessary to moisten the eggs, even at the risk of being bitten. Chinas, even should they grow to, could bite very hard in any event, and with those with which we have had experience, a token peck is more likely than a bite.

Some Chinas do not make good setters and some are impatient setters. Dewey Washington, having been given a mating of Chinas by Gwendoline Morris, was disgusted when a goose abandoned her nest just before hatching. He described her as "the foolishest fowl". Such Chinas should be watched more carefully than others. Frequently these eggs can be saved by putting the goose back on the nest and [illegible] Hiding her if she signs no disposition to stay on the eggs, by putting other geese on them, or by dividing them up among broody chickens, if available. We have [illegible] covered all night. It is recommended that the nests be observed as early in the morning as possible. Also, some geese abandon unhatched eggs to open the shells [illegible] that have hatched. This can sometimes be prevented by putting the gosslings near other adult geese who will normally adopt the young immediately. We have also saved doubtful eggs by adding [illegible] to the water [illegible] Chinas are [illegible] from those upon which they are setting, from one experience, it [illegible] during the entire [illegible] of the laying period.

If chickens are used to hatch green eggs, they should have an application of an insecticide to prevent the accumulation of such parasites as mites or lice. To keep down a few drops of sterilizing solution applied below the vent effecting for the entire period, but if further treatment is called for the attendant will know best. Chickens should have the green eggs turned but otherwise for them, because this is beyond their physical capacity. Mites will appear on the attendant hens and are of concern. Chickens should not be confined to such a small nest that they cannot allow the eggs to cool periodically, as they and green will instinctively do. Keep water and food available to them at all times. The water with which the eggs are sprinkled should be as warm as the eggs. Most chickens can incubate four green eggs each one every more. Except for the very earliest weeks, the incubation period of green eggs is much longer than that of green eggs. Hence the setting hen should be watched carefully toward the end of the hatching period.

If an incubator is used, regardless of the type, it should be cleaned thoroughly and the fumigated as soon as the hatching is over.

The fluffy young gosling is an object of considerable attraction to humans, young and old alike. Careful handling will not hurt them and, if they are to be made into pets, helps toward that end. Children should be encouraged not to squeeze them. The best way to hold them is with their legs on each side of the middle finger of the hand, with the palm up. The hand thus makes a cradle for the gosling and the only restraining pressure that need be applied is lateral to the legs, which are not hurt by this slight pressure. If with the parents or foster-parents, handling for goslings may not be easy or may involve slight danger, for geese, especially the males, are wonderful [illegible] protectors. The Chinese, especially, ought to the point of [illegible] to set [illegible] about their [illegible] protecting the young by pecking them from any of fancied danger. [illegible]

to whom they owe it the parent. Dr. Konrad Z. Lorenz, now in charge of this line of inquiry at the Max Planck Institute in Berlin, Germany, has discussed this phenomenon at some length in both scientific and popular writing. He is regarded as the father of this technique, where the imprinting is accomplished by a person. There is a simple matter for an ostrich or a child to recognize the [illegible] as or who is the mother, with sometimes interesting, sometimes embarrassing, results. Ducklings can also be foolishly known what were not. In the presence of other domestic animals, they can be so persistent in their acceptance of cats and dogs, both in wishing them and showing them, that they almost spoil the animals' fun in consideration.

There is really no [illegible] objection one can put up against [illegible] than any creature [illegible] the possibility of killing them. With proper care it is [illegible] a different matter. They are, unless too them, available both young [illegible] young wings, wishes and short beaks and broth not are usually purchased by only large or hungry gentlemen. The gander can [illegible] very heavily be the presence of danger to his family. Perhaps the greatest danger is most certainly [illegible] - thieves.

The end product of goose-raising is the same as [illegible] other kind of agriculture - a crop. Geese have additional benefits, but the crop is what should be kept in mind. The major crop is an excellent source of tasty protein for humans. Young geese is a very fine dish. But the best part is in just waiting until done. Old geese can be remarkably tough, and if one is injured or should be slaughtered for any other reason, perhaps the best preparation would be [illegible] point of view to [illegible] the [illegible] the [illegible] can be put to other [illegible]. And the [illegible] one day.

DELAWARE COUNTY

DELAWARE COUNTY COMMUNITY COLLEGE

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Picking a goose is not an easy chore at best and at worst it is exceedingly tedious. The use of scalding water helps, but wrong wet feathers. There is a market in parts of the United States for the flight feathers, which are used by either players and for the making of quill pens, etc. The down has been prized for centuries, and the development of synthetics has not eliminated the market. It is scarce because of high labor costs in the United States. Traditionally, adult geese may have been partially plucked several times a year between the down grows back. Under some circumstances, we believe, the down and feathers might provide additional sources of income for the farmer. (with fast bright pay) (an standard for insect)

It is difficult to predicate the productive life of geese in an environment both strange and foreign to the predictor. In those parts of the United States and Europe in which geese have been raised for goose years, it is believed that they are not the best breeders until several years old - until most other fowl would be considered well past their prime and economically a loss. Geese will live to unbelievable ages, frequently over a hundred years old. Ten to fifteen years, with decent care, should not be too long to expect them to more than pay their keep, and where the cost of keeping them is slight, even longer might well be profitable. With unusually good stock, it might even pay to keep them when they lay few eggs. Theoretically, as the gander ages he can be burdened with fewer mates. It should be kept in mind that breeding may be like hard work for him. Also, as he ages, he tends to become less active.

Among the other problems that may confront people unfamiliar with geese is sexing them. This can also bewilder experienced people. Chinese may more readily be sexed by sight than other species once they are well grown. The ganders are usually larger, having longer necks and bigger knobs. Their behavior (sometimes at a very early age) is also different. They act protectively toward the others or aggressively to strangers. They frequently run their chins almost on the ground when advancing to another goose or anything else they fancy [illegible]

[illegible] continued on page 6

Prior to slaughter (if at all possible) geese should be kept off of pasture for several days as more because they will sometimes [illegible] things that will taint the meat. In the Washington area one of the worst offenders is [illegible] and wild garlic.

[illegible] continued on page ____

Plucking is easier if the flight feathers are pulled as soon as the geese is killed, both because they are harder to pull and they prevent penetration of the water if the goose is scalded. Perhaps the best way to slaughter the geese is to hang it at a convenient height by both legs, cut the jugular with a sharp, pointed knife and immediately push the point of the knife into the brain, through the cleft in the upper part of the mouth. This tends to relax the nerves and muscles holding the feathers. If a can is hung from the lower mandible, bleeding can begin as soon as the geese caging is bled. The can will keep the goose from flopping wildly and will catch the blood.

other habits and mannerisms, which vary from gander to gander, will soon be noticed by an observant attendant.

If necessary to sex them earlier, this can be done beginning as soon as they hatch by carefully freeing them to evert the penis, in the case of the male, or demonstrating the absence of one in the case of the female. With very young goslings observation must be acute because the female also has an appendage in the cloaca but this is much smaller. Eversion is accomplished by holding the goose on its back, against the body of the examiner or an assistant, meanwhile pressing on the sides and cautiously parting the front of the vent. With well grown geese, there is no mistaking the male organ.

Then it is desired to control the number of breeding geese available, all the good-looking females can be kept, but only those ganders which, by appearance or heritage, may be considered good. While only one gander is [illegible] by so many as five geese, it is a wise precaution to have a few extra ganders available in the event of serious emergencies, for the loss of a gander at the beginning of the breeding period, or at any time, can discourage, since all the eggs will be infertile. It is less of a problem to introduce a fresh gander to a flock and encourage them to accept him, but it is with other species, but it may become also be a problem, as mentioned above. Required replacements should be made as promptly as possible.

With well managed and good Chinese, there is a good possibility some of the purchased females will lay in the fall or early winter of their first year. If not under observation the eggs will be deposited in odd places that may attract the geese as nesting sites for the following year's laying season. As should have that is happening if the geese are not laying.

presumption the eggs are fertile. Because of the relatively small number of eggs laid by geese as compared with chickens and most ducks, in the absence of compelling reasons to the contrary it should be assumed that the egg is fertile and we should if at all possible be hatched, if necessary by the geese. Our experience with these, which are called "out of season" eggs, has been that they hatch as well as others, with the Chinas.

It is only a presumption, but we believe if necessary geese might well be forced into production and their production prolonged in the same manner as chickens if we have for younged, more recently perhaps, by controlled artificial lighting. They tend to come into production with increasing light, as do all fowl. If this is attempted, it would seem that they would have to be confined and well fed, with the amount of light increasing gradually and slowly. If feed is not too expensive, the number of available eggs might then be increased. We also believe green feed both desirable and necessary in this circumstance. If it is not feasible for the geese to graze, then the grass should be cut and brought to them. They also relish cuttings of young grains such as wheat.

To anyone pursued in keeping poultry the foregoing may sound as though keeping geese is a difficult and elaborate business. Nothing can be further from the truth. They actually require less care than almost any living things.

Nor should the foregoing be accepted as a complete discussion of all the problems and all the answers. It is rather a brief discussion of some, with the solutions of which we are aware. Raising the geese is simple, easy, and we hope it will be enjoyable and profitable, as it should be.

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